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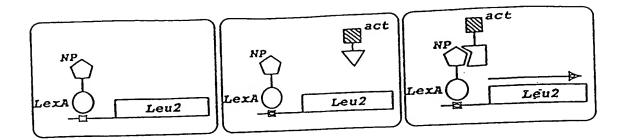


FIG. 1A

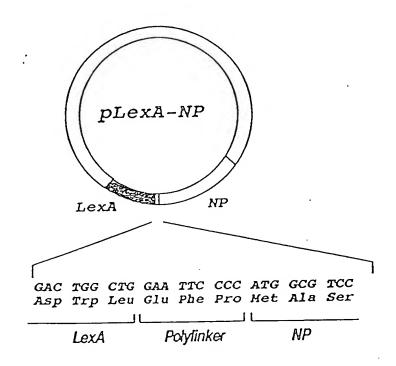


FIG. 1B

40 CTAACTTCAG CGGTGGCACC GGGATCGGTT GCCTTGAGCC TGAAATATGA CCACCCCAGG M T T P G> 120 100 AAAAGAGAAC TTTCGCCTGA AAAGTTACAA GAACAAATCT CTGAATCCCG ATGAGATGCG KEN FRL KSYK NKS LNP DEM R> 160 CAGGAGGAGG GAGGAAGAAG GACTGCAGTT ACGAAAGCAG AAAAGAGAAG AGCAGTTATT RRREEE GLQL RKQ KRE E QLF> 220 CAAGCGGAGA AATGTTGCTA CAGCAGAAGA AGAAACAGAA GAAGAAGTTA TGTCAGATGG KRRNVA TAEE ETE EEV MSDG> 280 AGGCTTTCAT GAGGCTCAGA TTAGTAACAT GGAGATGGCA CCAGGTGGTG TCATCACTTC GFHEAQISNMEMAPGGVITS> 340 TGACATGATT GAGATGATAT TTTCCAAAAG CCCAGAGCAA CAGCTTTCAG CAACACAGAA DMIEMIFSKS PEQQLS ATQK> 400 ATTCAGGAAG CTGCTTTCAA AAGAACCTAA CCCTCCTATT GATGAAGTTA TCAGCACACC FRKLLSKEPNPPIDEVISTP> 460 AGGAGTAGTG GCCAGGTTTG TGGAGTTCCT CAAACGAAAA GAGAATTGTT CACTGCAGTT 440 G V V A R F V E F L K R K E N C S L Q F> 520 TGAATCAGCT TGGGTACTGA CAAATATTGC TTCAGGAAAT TCTCTTCAGA CCCGAATTGT ESAWVLTNIASGNSLQTRIV> 580 GATTCAGGCA AGAGCTGTGC CCATCTTCAT AGAGTTGCTC AGCTCAGAGT TTGAAGATGT IQARAV PIFI ELL S S.·E FED V> 640 CCAGGAACAG GCAGTCTGGG CTCTTGGCAA CATTGCTGGA GATAGTACCA TGTGCAGGGA QEQAVWALGNIAG DST MCRD>. 700 CTATGTCTTA GACTGCAATA TCCTTCCCCC TCTTTTGCAG TTATTTTCAA AGCAAAACCG 680 Y V L D C N I L P P L L Q L F S K Q N R> 760 CCTGACCATG ACCCGGAATG CAGTATGGGC TTTGTCTAAT CTCTGTAGAG GGAAAAGTCC LTMTRNAVWALSNLCRGKSP>

FIG. 2A

820 800 ACCTCCAGAA TTTGCAAAGG TTTCTCCATG TCTGAATGTG CTTTCCTGGT TGCTGTTTGT PPEFAK VSPCLNVLSWLLFV> 860 CAGTGACACT GATGTACTGG CTGATGCCTG CTGGGCCCTC TCATATCTAT CAGATGGACC S D T D V L A D A C W A L S Y L S D G P> 960 940 920 CAATGATAAA ATTCAAGCGG TCATCGATGC GGGAGTATGT AGGAGACTTG TGGAACTGCT N D K I Q A V I D A G V C R R L V E L L> 1020 1000 980 GATGCATAAT GATTATAAAG TGGTTTCTCC TGCTTTGCGA GCTGTGGGAA ACATTGTCAC M H N D Y K V V S P A L R A V G N I V T> 1060 1040 AGGGGATGAT ATTCAGACAC AGGTAATTCT GAATTGCTCA GCTCTGCAGA GTTTATTGCA G D D I Q T Q V I L N C S A L Q S L L H> 1120 TTTGCTGAGT AGCCCAAAGG AATCTATCAA AAAGGAAGCA TGTTGGACGA TATCTAATAT SPKESIKKEACWTISNI> 1180 TACAGCTGGA AATAGGGCAC AGATCCAGAC TGTGATAGAT GCCAACATTT TCCCAGCCCT TAGNRAQIQT VIDANI FPAL> 1240 1220 CATTAGTATT TTACAAACTG CTGAATTTCG GACAAGAAAA GAAGCAGCTT GGGCCATCAC ISILQT AEFR TRK EAA WAIT> 1300 1280 AAATGCAACT TCTGGAGGAT CAGCTGAACA GATCAAGTAC CTAGTAGAAC TGGGTTGTAT NATSGGSAEQIKYLVE LGCI> 1360 1340 CAAGCCGCTC TGTGATCTCC TCACGGTCAT GGACTCTAAG ATTGTACAGG TTGCCCTAAA C D L L T V M D S K I V Q V A L N> 1440 1420 1400 TGGCTTGGAA AATATCCTGA GGCTTGGAGA ACAGGAAGCC AAAAGGAACG GCACTGGCAT G L E N I L R L G E Q E A K R N G T G I> 1480 1460 TAACCCTTAC TGTGCTTTGA TTGAAGAAGC TTATGGTCTG GATAAAATTG AGTTCTTACA N P Y C A L I E E A Y G L D K I E F L Q> 1540 GAGTCATGAA AACCAGGAGA TCTACCAAAA GGCCTTTGAT CTTATTGAGC ATTACTTCGG H Y F G> SHE NQE IYQK AFD LIE 1600 1580 GACCGAAGAT GAAGACAGCA GCATTGCACC CCAGGTTGAC CTTAACCAGC AGCAGTACAT TEDEDSSIAPQVDLNQQQYI>

FIG. 2B

1680 1660 CTTCCAACAG TGTGAGGCTC CTATGGAAGG TTTCCAGCTT TGAAGCAATA CTCTGCTTTC FQQCEAPMEGFQL> 1720 ACGTACCTGT GCTCAGACCA GGCTACCCAG TCGAGTCCTC TTGTGGAGCC CACAGTCCTC 1780 1840 GCACCTGCTC TCTTACACAC ATCTGGAAAA CCTCCGGCTC TCTGTGGTGG GATACCCTTC 1900 TAATAAAAGG GTAACCAGAA CGGCCCACTC TCTTTTACGG AAAAATCCCT AGGCTTTGGA 1960 GATCCGCACT TACATTAGAG TTATGGGAAT ATACACATAT TAATGTGGCT CCCTTTTTCT 2020 TGTGGGGGAA TAAAAGAGGA CTCCTCCTCA TTCCCTTTAA CATGGGGGAA AAAACTGACA 2100 2080 TTAAAAGATG AGACTAAATC TTTATCTTGA ATTTTACACA ACTACTTACG ACAAGGGAGA 2140 TGTTTAGACC TGTTGGTATA CTTCAGAGTA CTTTTCATGA GTTCTTCCAC AGTGAACCCT 2220 2200 TGGATTACCT GGTGGCTTTT TCTAGCCAGA TTGCATTAAT CCTTACTGAG ATTGGATGGT 2260 TTTCTTTCCT CTATTGGCGC CATTCTTCAG ATATTAAAGT TAAACCATCC ACTCCCTCAC 2320 CTTCAGCCTT CAGTGAATGT GCTTTCTAGT TGTCAGGAAT GCTGAAGAAT TAACACTTTG 2380 ACTCCTAAAT GTGATACTGG TGGGTAAGAG CAGGGCACAT TTAATTTGTT CGCTTTTGCT 2440 TCTCTTTGGT CTGGGCACAT TTAATTTGTT CGCTTTTGCT TCTCTTTGGT CTTTTCGAAT 2500 ACTTAGTAAT CGAAAACCAT ATCCTGTAAT TTAATAAAAA AAACTAAGGA CGAAAAAACC 2560 CCTCCAATTT TCCCAAATGC AATCAGTGTA ACTAGGGGCT GTGTTTCTGC ATTAAAATAA 2620 ATGTTTCAGG CTTTGTGGTC CTGATCAAGG TCCTCATTAA AAAATTGGAG TTCACCCTAG 2680 GCTTTTCCCC TCTGTGACTG GCAGATAACA CATACTTTTG AAAGTAACTT TGGGATTTTT 6923-054

:₆835;

TTTCTTAGGT GCAGCTCGAT TCTAATCTTT TCATGCTGCA CACGATTCCT TTAATCGATA

2780 2800 2820
GCATCCTTAT CTGAAAGAAA TAACCATCTT CTCAACATGA CCTGCTTAAC CCAAATAAGA

ACAGTGATCT TATAACCTCA TTGTTTCCTA ATCTATTTTA TTTCATCTCC TGCTAGTACT

2900 2920 2940
GTGCCGCTTC CCCCTCCCCC CACACAAAAT AAAAACAGTA TCTCGCTTCT GGCTCATTTT

FIG. 2D

```
MTTPGKENFRLK
NPI-1
                                               111 .
                                          1:
                                   HONGTOSSTSKEVPEYRRT
SRP1
         SYKNKS-LNPDVMRRRREEEGLQLRKLKREEQLFKRRNVVTAEEETE
         મના તેમ દેશાંને માર્પે તેમાં સામ માટે તેમાં
NPI-1
         NFKNKGRFSADELRRRRDTQQVELRKAKRDEALAKRRNFIPPTDGAD
SRP1
         EEVMSDGGFHEAQISNMEHAPGGVITSDMIEMIFSKSPEQQLSATQK
         A AU AT HAR CHAIL IN HITHER
NPI-1
         SDEEDESSVSADQQFYSQLQQ---ELPQHTQQLNSDDHQEQLSATVK
SRP1
         FRKLLSKEPDPPIDE-VISTPGVVARFVEFLKR-KENCSLQFESAWV
                                                       |Repeat 41
          H::H:1. IIII 1: :HI:I:HI:: ::
NPI-1
                                            11:1:11.
         FRQILSREHRPPID--VVIQAGVVPRLVEFMRE-NQPEMLQLEARHA
SRP1
         LTNIASGNSLQTRI--VIQARAV-PIFIELLSS-ESEDVQE-QAVWA
        151
                                                        |Repeat #2
          NPI-1
SRP1
          LGNIAGDSTHCRDY--VLDCNIL-PPLLQLFSKQNRLTHTR-NAVWA
          111:11111 -111 11111 : 1:1 11:- 1: ::-1 -1:1:
                                                        [Repeat #3
NPI-1
          LGNVAGDSTDYRDY--VLQCNAM-EPILGLFNS-NKPSLIR-TATWT
SRP1
          LSNLCRGKSPPPEF--AKVSPCL-NVLSWLLFV-SDTDVLA-DACHA
        236
          HIIIII.L. : H. I. dedie Hista Hill
                                                        |Repeat #4
NPI-1
          LSNLCRGKKPQPDW--SVVSQAL-PTLAKLIYS-MDTETLV-DACHA
 SRP1
          LSYLSDGPNDKIQA---VIDAEYVET-VELLMH-NDYKVVS-PALRA
          |Repeat #5
NPI-1
 SRP1
          VGNIVTGDDIQTQV---ILNCSALQSLLHLLSS-PKESIKK-EACWT
        319
                                                        |Repeat #6
 NPI-1
          VGNIVTGNDLQTQV---VINAGVLPALRLLLSS-PKENIKK-EACHT
 SRP1
         361
          ISNITAGNRAQIQT---VIDANIFPALISILQT-AEFRTRK-EAAWA
           1111111 .111: 11111::1:1::1:: [1::1:1 11 11 .
                                                        |Repeat 47
 NPI-1
          ISNITAGNTEQIQA---VIDANLIPPLVKLLEV-AEYKTKK-EACHA
 SRP1
           ITNATSGG--SAEQIKYLVELGCIKPLCDLLTV-HDSKIVQ-VALNG
           renent er fein, minning reite iste
                                                         |Repeat #8
 NPI-1
           ISNASSGGLQRPDIIRYLVSQCCIKPLCDLLEI-ADNRIIE-VTIDA
 SRP1
           LENILRIGEQEAKRNGTGINPYCALIEEAYGLDKIEFL-LSHENQEI
           NPI-1
           LENILKMGEADKEARGLNINENADFIEKAGGMEKI-FNCQQNENDKI
 SRP1
           YQKAFDLIEHYFGTEDE--DSSIAPQVDLNQQQYIFQQCEAPMEGFQL
         491
 NPI-1
           1:11:-:11 111-1:: 1-:::11 - 1
           YEKAYKIIETYFGEEEDAVDETMAPQNAGNTFGFGSNVNQQFNFN
 SRP1
 Repeat element Consensuses:
           L+NLS*+***N+*--ALL**GGL-PALV+LL*S-*+E**L*-*AA*A
  ARM:
                              I
                                   1
                          ΙI
           LSNI*SG***QPQ~~*VVI*AGV*PPLV~LL*S~*~*E*K+E~ACWA
  NPI-1
   &SRP1:
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FIG. 3

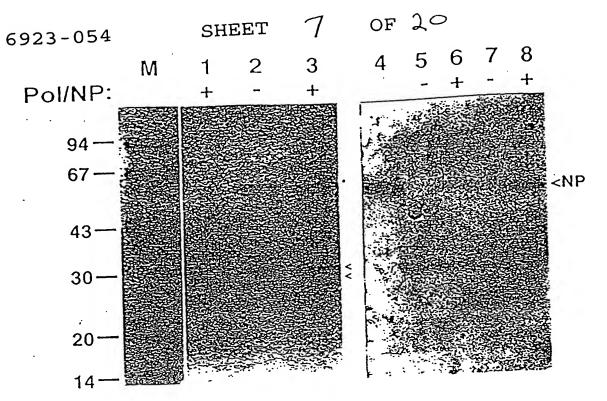


FIG. 4

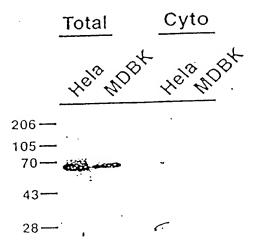


FIG. 5

(1984)

FIG. 6

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GGAGGCACCG AAGGGCAGCG CCGAGTCGGA GGGGCGAAG ATTGACGCCA GTAAGAACGA

80 100 120
GGAGGATGAA GGCCATTCAA ACTCCTCCCC ACGACACTCT GAAGCAGCGA CGGCACAGCG

140 160
GGAAGAATGG AAAATGTTTA TAGGAGGCCT TAGCTGGGAC ACTACAAAGA

FIG. 7

20 40 GAGGTCAATG TGGAGCTGAG GAAAGCTAAG AAGGATGACC AGATGCTGAA GAGGAGAAAT EVN VELR KAK KDD QMLK RRN> 80 GTAAGCTCAT TTCCTGATGA TGCTACTTCT CCGCTGCAGG AAAACCGCAA CAACCAGGGC V S S F P D D A T S P L Q E N R N N Q G5 140 ACTGTAAATT GGTCTGTTGA TGACATTGTC AAAGGCATAA ATAGCAGCAA TGTGGAAAAT T V N W S V D D I V K G I N S S N V E N> 220 CAGCTCCAAG CTACTCAAGC TGCCAGGAAA CTACTTTCCA GAGAAAAACA GCCCCCCATA Q L Q A T Q A A R K L L S R E K Q P P I> 280 260 GACAACATAA TCCGGGCTGG TTTGATTCCG AAATTTGTGT CCTTCTTGGG CAGAACTGAT DNIIRAG LIPKFV SFLG RTD> 340 320 TGTAGTCCCA TTCAGTTTGA ATCTGCTTGG GCACTCACTA ACATTGCTTC TGGGACATCA CSPIQFESAWALT NIAS GTS> 400 GAACAAACCA AGGCTGTGGT AGATGGAGGT GCCATCCCAG CATTCATTTC TCTGTTGGCA EQTKAVV DGG AIP AFIS LLA> 440 460 TCTCCCCATG CTCACATCAG TGAACAAGCT GTCTGGGCTC TAGGAAACAT TGCAGGTGAT SPHAHIS EQAVWALGNI AGD> 520 GGCTCAGTGT TCCGAGACTT GGTTATTAAG TACGGTGCAG TTGACCCACT GTTGGCTCTC GSVFRDLVIKYGAVDPLLAL> 560 580 CTTGCAGTTC CTGATATGTC ATCTTTAGCA TGTGGCTACT TACGTAATCT TACCTGGACA LAVPDMSSLACGYLRNLTWT> 640 CTTTCTAATC TTTGCCGCAA CAAGAATCCT GCACCCCCGA TAGATGCTGT TGAGCAGATT LSNLCRNKNPAPPIDAVEQI> 700 680 CTTCCTACCT TAGTTCGGCT CCTGCATCAT GATGATCCAG AAGTGTTAGC AGATACCTGC LPTLVRLLHHDDPEVLADTC> 760 740 TGGGCTATTT CCTACCTTAC TGATGGTCCA AATGAACGAA TTGGCATGGT GGTGAAAACA WAISYLT DGP NERIGM V V K T>

FIG. 8A

800 820 GGAGTTGTGC CCCAACTTGT GAAGCTTCTA GGAGCTTCTG AATTGCCAAT TGTGACTCCT G V V P Q L V K L L G A S E L P I V T P> 860 GCCCTAAGAG CCATAGGGAA TATTGTCACT GGTACAGATG AACAGACTCA GGTTGTGATT ALRAIGNIVT GTD EQTQ VV_I> GATGCAGGAG CACTCGCCGT CTTTCCCAGC CTGCTCACCA ACCCCAAAAC TAACATTCAG DAGALAV FPS LLT NPKT NIQ> 1000 980 AAGGAAGCTA CGTGGACAAT GTCAAACATC ACAGCCGGCC GCCAGGACCA GATACAGCAA KEATWIMSNI TAGRQDQ I Q Q> 1060 1040 GTTGTGAATC ATGGATTAGT CCCATTCCTT GTCAGTGTTC TCTCTAAGGC AGATTTTAAG V V N H G L V P F L V S V L S K A D F K> 1120 1100 ACACAAAAGG AAGCTGTGTG GGCCGTGACC AACTATACCA GTGGTGGAAC AGTTGAACAG TQKEAVWAVTNYTSGGTVEQ> 1180 1160 ATTGTGTACC TTGTTCACTG TGGCATAATA GAACCGTTGA TGAACCTCTT AACTGCAAAA I V Y L V H C G I I E P L M N L L T A K> 1240 1220 GATACCAAGA TTATTCTGGT TATCCTGGAT GCCATTTCAA ATATCTTTCA GGCTGCTGAG DTKIILVILDAIS NIFQ AAE> 1300 1280 AAACTAGGTG AAACTAGCTG CCCGTCTTCA CAGATTCAAG AACAAGGGAA AAGACAGTAC K L G E T S C P S S Q I Q E Q G K R Q Y> 1360 AGAAATGAGG CGTCCGAGGC GTCGCAGAAT AGAGAAACTT AGTATAATGA TTGAAGAATG R N E A S E A S Q N R E T> 1420 1400 TGGAGGCTTA GACAAAATTG AAGCTCTACA AAACCATGAA AATGAGTCTG TGTATAAGGC 1480 TTCGTTAAGC TTAATTGAGA AGTATTTCTC TGTAGAGGAA GAGGAAGATC AAAACGTTGT 1540 ACCAGAAACT ACCTCTGAAG GCTACACTTT CCAAGTTCAG GATGGGGCTC CTGGGACCTT 1600 TAACTTTTAG ATCATGTAGC TGAGACATAA ATTTGTTGTG TACTACGTTT GGTATTTTGT 1660 CTTATTGTTT CTCTACTAAG AACTCTTTCT TAAATGTGGT TTGTTACTGT AGCACTTTTT ...

FIG. 8B

(SHEET 12 OF 20)

1700 1720 1740
ACACTGAAAC TATACTTGAA CAGTTCCAAC TGTACATACA TACTGTATGA AGCTTGTCCT

1760 1780 1800 CTGACTAGGT TTCTAATTTC TATGTGGAAT TTCCTATCTT GCAGCATCCT GTAAATAAAC

1820 ATTCAAGTCC ACCCTTTTCT TGACTTC

FIG. 8C

GAACGACCAA GAGGGTGTTC GACTGCTAGA GCCGAGCAGA AGCGTGCCTA AATCAAAGGA 80 ACTTGTTTCT TCAAGCTCTT CTGGCAGTGA TTCTGACAGT GAGGTTGACA AAAAGTTAAG 140 160 180 CAGGAAAAAG CAAGTTGCTC CAGAAAAACC TGTAAAGAAA CAAAAGACAG GTGAGACTTC 220 GAGAGCCCTG TCATCTTCTA AACAGAGCAG CAGCAGCAGA GATGATAACA TGTTTCAGAT TGGGAAAATG AGGTCAGTT

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FIG. 9

TGTCGACTGT GGCTTTGAGC ATCCGTCAGA AGTCCAGCAT GAGTGCATCC CTCAGGCCAT

80 100 120
TCTGGGAATG GATGTCCTGT GCCAGGCCAA GTCGGGCATG GGAAAGACAG CAGTGTTTGT

140 160 180
CTTGGCCACA CTGCAACAGC TGGAGCCAGT TACTGGGCAG GTGTCTGTAC TGGTGATGTG

200 220
TCACACTCGG GAGTTGGCTT TTCAGATCAG CAAGGAATAT G

FIG. 10

FIG. 11

5883

	-103 TCTGACCCTCGCCCCCCCCC	-80
-81	CATTCGCCGCCTCCTCCCCCCAGTCGCCGTCCAGCGGCTCTGCTTGTTCGTGTGTGT	-1
L	ATGGGCTCACCGCTGAGGTTCGACGGGCGGGGTGGTTACTGGTCACCGGCGGGGGCAGGATTGGGCCGAGCCTATGCCCT M G S P LI R F D G R V V L V T G A G A G L G R A Y A L	80 27
81	GGCTTTTGCAGAAAGAGGGGGCGTTAGTTGTGAATGATTTGGGAGGGGGCCACTTCAAAGGAGTTGGTAAAGGCTCCTTAG A F A E R G A L V V V N D L G G D F K G V G K G S L	160 53
161	CTGATAAGGTTGTTGAAGAAATAAGAAGGAGAGGGGGAAAAAGCAGTGGCCAACTATGATTCAGTGGAAGAAGGAGAGAAAAAAAA	240 80
241	GTTGTGAAGACAGCCCTGGATGCTTTTGGAAGAATAGATGTTGTGGTCAACAATGCTGGAATTCTGAGGGATCATTCCTT V V K T a L D A F G R I D V V V N N A G I L R D H S F	320 107
321	TGCTAGGATAAGTGATGAAGACTGGGATATAATCCACAGAGTTCATTTGCGGGGTTCATTCCAAGTGACACGGGCAGCAT A R I S D E D W D I I H R V H L R G S F Q V T R A A	400 133
401	GGGAACACATGAAGAACAGAAGTATGGAAGGATTATTATGACTTCATCAGCTTCAGGAATATATGGCAACTTTGGCCAG W E H M K K Q K Y G R I I M T S S A S G I Y G N F G Q	480 160
481	GCCAATTATAGTGCTGCAAAGTTGCGTCTTCTGGGCCTTGCAAATTCTCTTGCAATTGAAGGCAGGAAAAGCAACATTCAANYSAAAAGCAACATTCAANYSAAAAGCAACATTCAANYSAAAAGCAACATTCAANYSAAAAGCAACATTCAANYSAAAAGCAACATTCAANYSAAAAGCAACATTCAAAAAAGCAACATTCAAAAAAGCAACATTCAAAAAAGCAACATTCAAAAAAGCAACATTCAAAAAAAA	560 187
561	TTGTAACACCATTGCTCCTAATGCGGGATCACGGATGACTCAGACAGTTATGCCTGAAGATCTTGTGGAAGCCTTGAAGC C N T I A P N A G S R M T Q T V M P E D L V E A L K	640 213
641	CAGAGTATGTGGCACCTCTTGTCCTTTGGCTTTGTCACGAGAGTTGTGAGGAGAATGGTGGCTTGTTTGAGGTTGGTGCA P E Y V A P L V L W L C H E S C E E N G G L F E V G A	720 240
721	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	800 267
801	AGTCAAGGCTAACTGGAAGAAGATCTGTGACTTTGAGAATGCCAGCAAGCCTCAGAGTATCCAAGAATCAACTGGCAGTA V K A N W K K I C D F E N A S K P Q S I Q E S T G S	880 293
881	TAATTGAAGTTCTGAGTAAAATAGATTCAGAAGGAGGAGTTTCAGCAAATCATACTAGTCGTGCAACGTCTACAGCAACA I I E V L S K I D S E G G V S A N H T S R A T S T A T	960 320
961	TCAGGATTTGCTGGAGCTATTGGCCAGAAACTCCCTCCATTTTCTTATGCTTATACGGAACTGGAAGCTATTATGTATG	1040 347
	CCTTGGAGTGGGAGCGTCAATCAAGGATCCAAAAGATTTGAAATTTATTT	
	CCACCTTCGGAGTTATCATAGGTCAGAAATCTATGATGGTGGAGGATTAGCAGAAATTCCTCGACTTTCAATCAA	
	GCAAAGGTTCTTCATGGAGAGCAGTACTTAGAGTTATATAAACCACTTCCCAGAGCAGGAAAATTAAAATGTGAAGCAGT A K V L H G E Q Y L E L Y K P L P R A G K L K C E A V	
	TGTTGCTGATGTCC TAGATAAACGATCCGGTGTAGTGATTATTATGGATGTCTATTCTTATTCTGAGAAGGAACTTATAT V A;D V L D K G S G V V I I M D V Y S Y S E K E L I	
1361	GCCACAATCAGTTCTCTCTTCTTGTTGGCTCTGGAGGCTTTGGTGGAAAACGGACATCAGACAAAGTCAAGGTAGCT C H N Q F S L F L V G S G G F G G K R T S D K V K V A	1440

FIG. 12A

1441 GTAGCCATACCTARTAGACCTCCTGATGCTGTACTTACAGATACCACCTCTCTTAATCAGGCTGCTTTGTACCGCCTCAG 1520 VAIPN RPPDAVLTDTTSLNQAALYRLS 507 1521 TGGAGACCGGAATCCCTTACACATTGATCCTAACTTTGCTAGTCTAGCAGGTTTTGACAAGCCCATATTACATGGATTAT 1600 G D'R N P L H I D P N F A S L A G F D K P I L H G L 1601 GTACATTEGGATTTTCTGCCAGGCGTGTTTACAGCAGTTTGCAGATAATGATGTGTCAAGATTCAAGGCAGTTAAGGCT 1680 CTFGFISARRVLQQFADNDVSRFKA-VKA 560 RFAKPVYPGQTLQTEMWKEGNRIHFQT587 1761 CAAGGTCCAAGAAXCTGGAGACATTGTCATTTCAAATGCATATGTGGATCTTGCACCAACATCTGGTACTTCAGCTAAGA 1840 K V Q E T G D I V I S N A Y V D L A P T S G T S A K 1841 CACCCTCTGAGGGCGGGAAGCTTCAGAGTACCTTTGTATTTGAGGAAATAGGACGCCGCCTAAAGGATATTGGGCCTGAG 1920 TPSEGIGKLQSTFVFEEIGRRLKDIGPE 640 1941 GTGGTGAAGGAAAGTAAATGCTGTATTTGAGTGGCATATAACCAAAGGCGGAAATATTGGGGCTAAGTGGACTATTGACCT 2000 VVKKUNAVFEWHITKGGNIGAKWTIDL 667 2001 GAAAAGTGGTTCTGGAAAAGTGTACCAAGGCCCTGCAAAAGGTGCTGCTGATACAACAATCATACTTTCAGATGAAGATT 2080 KSGSGKVYQGPAKGAADTTIILSDED 2081 TCATGGAGGTGTCTGGGCAAGCTTGACCCTCAGAAGGCATTCTTTAGTGGCAGGCTGAAGGCCAGAGGGAACATCATG 2160 FMEVVILGKLDPQKAFFSGRLKARGNIM 720 2161 CTGAGCCAGAAACTTCAGATGATTCTTAAAGACTACGCCAAGCTCTGAAGGGCACACTACACTATTAATAAAAATGGAAT 2240 735 LSQKLQMILKDYAKL 2241 CATTAAATACTCTCTTCACCCAAATATGCTTGATTATTCTGCAAAAGTGATTAGAACTAAGATGCAGGGGAAATTGCTTA 2320 2340 ACATTTCAGATACCAGATAACTGCAGATTTCATTTTCTACTAATTTTTCATGTATCATTATTTTTACAAGGAACTATA 2400 2401 TATAAGCTAGCACATAATTATCCTTCTGTTCTTAGATCTGTATCTTCATAATAAAAAAATTTTGCCCAAGTCCTGTTTCC 2480 АААААААААА

8885

.

FIG. 12B

(SHEET 17 OF 20)

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Kb

9.5 7.5 -

4.4.

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1.35

0.24-

FIG. 13

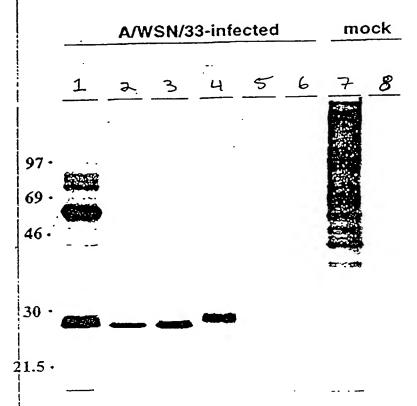


FIG. 14

PANEL A

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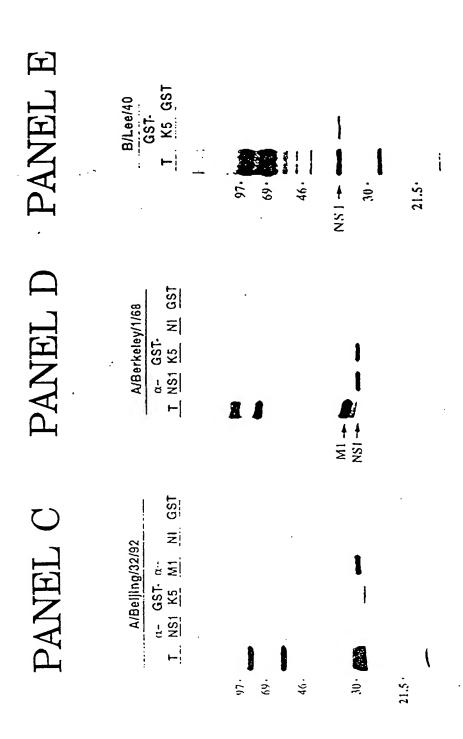
PANEL B

A/duck/Alberta/76 α- GST-T NS1 K5 NI GST

A/turkey/Oregon/71 α- GST-T NS1 K5 NI GST

NS1

MI Y INV



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